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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/804,427	-	03/18/2004	Terrance John Hermary	58255-010301	7221
45934	7590	08/14/2006		EXAMINER	
		RIGAR, ESQ.	DETSCHEL, MARISSA		
	GREENBERG TRAURIG LLP - INTELLECTUAL PROPERTY DEPT 2450 COLORADO AVENUE, SUITE 400E				PAPER NUMBER
	SANTA MONICA, CA 90404			2877	
				DATE MAILED: 08/14/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

•		\mathcal{S}					
	Application No.	Applicant(s)					
	10/804,427	HERMARY ET AL.					
Office Action Summary	Examiner	Art Unit					
	Marissa J. Detschel	2877					
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a i. riod will apply and will expire SIX (6) MON tatute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 2	8 June 2006.						
2a) ☐ This action is FINAL . 2b) ☑ 3	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice und	er Ex parte Quayle, 1935 C.E). 11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the appl	ication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.	6)⊠ Claim(s) 1 and 2 is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction ar	nd/or election requirement.						
Application Papers							
9) The specification is objected to by the Exan	niner.						
10) The drawing(s) filed on is/are: a)		by the Examiner.					
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the co							
11) ☐ The oath or declaration is objected to by the	e Examiner. Note the attache	d Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have beer reau (PCT Rule 17.2(a)).	Application No n received in this National Stage					
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	•	Summary (PTO-413) (s)/Mail Date					
Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date	'	Informal Patent Application (PTO-152)					

DETAILED ACTION

Election/Restrictions

The applicant's response to the requirement for election/restriction filed June 28, 2006, with an election of species a, directed towards claims 1 and 2, has been accepted by the Examiner. This election is deemed final.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

This claim reads as follows:

1. A scan head for use in a scanner for projecting light onto an object to be scanned, and for detecting *light reflected from the object*, the scan head having precisely two spaced light projectors and two spaced light detectors; wherein the projectors, when operating, operate in a time-division multiplexed mode, and the detectors, when operating, each operate in synchrony *to receive light reflected from both projectors*.

The light that is detected is claimed as reflecting from the object and, later on in the claim, from the projectors. This introduces an inconsistency with the claimed subject matter. Upon further examination of the claims, the Examiner takes the limitation of the light that is detected is reflecting from the object into consideration.

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Claim 2, which depends from claim 1, inherits the problems of this claim, and is also rejected under 35 U.S.C. 112, second paragraph.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

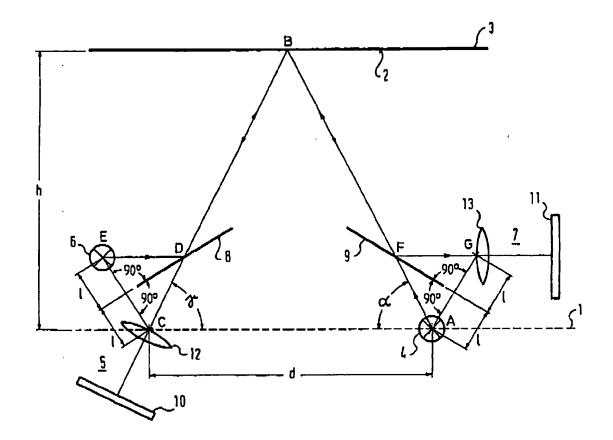
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Jurca (USPN 5,933,240).

Jurca discloses a device having two spaced light projectors (4 and 6) and two spaced light detectors (10 and 11), as seen in the figure below.

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The projectors operate in a time-division multiplexed mode. The projectors are turned off during a first measurement. The projector 6 is turned on and a measurement is taken, followed by a subsequent measurement taken with the projector off. The same sequence is applied to the projector 4. A controlling signal processor switches the light sources off and on. The light received by the detectors (10 and 11) is reflected from the surface 2 of the object 3. (column 5, line 57 to column 6, line 39)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jurca (USPN 5,933,240) as applied to claim 1 above, and further in view of Kuchel (USPN 5,135,309).

Jurca does not disclose the use of a coded light projector as at least one of the projectors. Kuchel discloses an apparatus for measuring an object surface by projecting bar patterns (i.e. coded light) onto the surface of the object and detecting phase differences between the bar patterns and using the phase differences between the bar patterns to detect ambiguities in height measurements of the surface of the object. (column 3, lines 17-42) It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the bar pattern projectors of Kuchel as the projectors in the device of Jurca in order to detect ambiguities on the surface of an object to be measured.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marissa J. Detschel whose telephone number is 571-272-2716. The examiner can normally be reached on M-F 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on 571-272-2059. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Marissa J. Detschel July 26, 2006

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